IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Jonghill Hong

Serial No.:

10/664,066

Conf. No.:

3251

Filed:

September 16, 2003

For:

MAGNETORESISTIVE SPIN-

VALVE SENSOR AND MAGNETIC STORAGE

APPARATUS

Art Unit:

2862

Examiner:

I hereby certify that this paper is being deposited with the United States Postal Service as FIRST-CLASS mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this date.

11 teb04

Registration No. 29,367 Attorney for Applicant(s)

INFORMATION DISCLOSURE STATEMENT

Mail Stop Missing Parts Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

This IDS is submitted under 37 C.F.R. §1.97(b) within either of the following time periods, whichever occurs last:

- (a) within three months of either the filing date of the national application or the date of entry into the national stage; or
- (b) before the mailing date of first office action on the merits (i.e., not including actions such as restriction requirements).

Applicant(s) submit herewith Form PTO-1449 (Information Disclosure Citation) together with copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 C.F.R. §1.56. Applicant(s) respectfully submit that the citation of any reference on Form PTO-1449 does not constitute an admission that the reference qualifies as prior art.

It is requested that the information disclosed on the enclosed Form PTO-1449 be made of record in this application.

A copy of the Search Report for PCT/JP01/09447 is enclosed. A written opinion mailed on October 25, 2002 in PCT/JP01/09447 is also enclosed.

The Commissioner is hereby authorized to charge any additional fees which may be required to this application under 37 C.F.R.§§1.16-1.17, or to credit any overpayment, to Deposit Account No. 07-2069. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

GREER, BURNS & CRAIN, LTD.

300 South Wacker Drive – Suite 2500 Chicago, Illinois 60606 Telephone: (312) 360-0080

Facsimile: (312) 360-9315 Customer Number 24978

Patrick G. Burns

Registration No. 29,367

Form PTO-1449 U.S. Department of Commerce (Rev. 8-88) Patent and Trademark Office INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Attorney Docket No.: 0941.68363		Serial No.: 10/664,066		
				Applicant: Hong et al.				
				Filing Date: Sep. 16, 2003		Group: 2862		
U.S. PATEN	NT DOCUMENTS							
Examiner Initial*	Document Number	Date	Name Singh		Class	Subclass	Filing Date If Appropriate	
	6,181,534	Jan. 30, 2001						
FOREIGN F	PATENT DOCUMENTS					•,		
							Translati	on
	Document Number	Date	Country		Class	Subclass	Yes	No
	10-313138*	Nov. 24, 1998	Japan				Abs.	
OTHER DO	CUMENTS (Including Aut	hor, Title, Date, Po	ertinent Page:	s, Etc.)				
		n Oxide Capping		Coupling in Spin Valves"; IEA	EE Trans. on I	Magnetics; V	ol. 36, No	. 5;

Examiner D				te Considered				
*Examiner:	Initial if c	itation considered,	whether or r	not citation is in conformance dered. Include copy of this for	with MPEP 60	9; Draw line	through c	itation

^{*}This reference was previously submitted, but the copy of the reference might have been incomplete.